

TANAY AGARWAL

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Summary

Full Stack AI Engineer specializing in production-grade AI systems, multi-agent architectures, and scalable backend platforms. Experienced in building autonomous agent workflows and enterprise chatbots for real-world use cases. Focused on 0→1 product development, shipping impactful AI features, and designing end-to-end systems from concept to deployment.

Experience

TheAgentic

May 2025 - Present

Artificial Intelligence Developer

- Built and productionized multi-agent AI systems using PydanticAI, enabling autonomous document intelligence, structured data extraction, and agent-orchestrated reasoning across enterprise knowledge bases.
- Developed enterprise-scale autonomous agent ecosystems (15+ agents) for CRM, onboarding, and lifecycle analytics—integrated with HubSpot, Salesforce, Slack, Gmail, and Jira—delivering end-to-end AI automation.
- Designed retrieval-augmented reasoning, policy-intelligence, and strategic-recommendation agents to generate insights and support expert decision-making in insurance and financial domains.
- Implemented multimodal AI pipelines, including vision-augmented and web-intelligence agents for deep research, data collection, and risk analysis.

Saint Gobain - INDEC

Jun 2024 - May 2025

Associate Software Engineer

- Built data pipelines using Snowflake, Azure Data Factory, and Azure Synapse Analytics; earned two Snowflake Badges.
- Developed AI-powered chatbots using LangChain and LangGraph to automate HR queries (policies, payroll, benefits), reducing manual ticket volume.
- Engineered multi-step agent systems integrating Confluence and ServiceNow for knowledge retrieval, IT ticket creation, and workflow automation.

ICICI Prudential Life Insurance

Aug 2022 - Dec 2022

Software Engineer Intern

- Reduced Bloomberg job file transfer time by over 40% by automating project payment file transfers.
- Collaborated with the IT-SAP team to gather business requirements and configure SAP system workflows.
- Automated Host-to-Host file transfers for the Investment Rationale Project, streamlining payment operations.

Technical Skills

AI & LLM Ecosystem: Agentic AI, PydanticAI, LangChain, LangGraph, CrewAI, RAG Pipelines, Vector Databases, Knowledge Graphs, LLM Orchestration, Prompt Engineering, NLP, Multimodal AI

Machine Learning: TensorFlow, PyTorch, Deep Learning, Computer Vision, YOLO, CNNs, Transformers

Data/Backend: SQL, PostgreSQL, Snowflake, Azure Data Factory (ADF), Azure Synapse Analytics, FastAPI, Apache Spark, Kafka, Hadoop

Programming: Python, Java, JavaScript

DevOps/Tools: Docker, Kubernetes, Linux, GitHub, Bash, React, Node.js

Certifications: AWS Cloud Architect, AWS Data Analytics, AWS Data Engineering, Snowflake Data Warehouse, Snowflake Data Engineering

Projects

CutDraft

- Developing **CutDraft**, an AI-powered video editing tool that converts raw footage into ready-to-post short-form content using natural language commands.
- Building automated workflows for clip selection, clean cuts, captions, thumbnails, and multi-platform exports (Reels, Shorts, podcasts).
- Focused on simplifying content creation for photographers, artists, and creators by reducing manual editing effort.

Education

DJ Sanghvi College of Engineering, Mumbai

B.Tech, CSE (Data Science)

2024

CGPA : 8.9